## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

09/422,9998
/FW/6
6/14/05

## ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 06/14/2005
PATENT APPLICATION: US/09/422,999B TIME: 13:29:06

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Output Set: N:\CRF4\06132005\1422999B.raw

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## RAW SEQUENCE LISTING DATE: 06/14/2005 PATENT APPLICATION: US/09/422,999B TIME: 13:29:06

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Output Set: N:\CRF4\06132005\I422999B.raw

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68 Lys Glu Leu Lys Ala Leu Leu Asp Gln Glu Gly Asn Arg Arg His Ser 69 105 106 115 110 115 170 180 155 170 180 155 170 180 155 170 180 155 170 180 155 170 180 180 180 180 180 180 180 180 180 18			~~~	~+~	~		90					95					100	-12
105																		513
71 agc ctc atc gac atc gag agt gtc ccc acc tac aag tgg aag cgg cag 72 Ser Leu 11e Asp 11e Glu Ser Val Pro Thr Tyr Lys Trp Lys Arg Gln 73 120 125 130 126 125 130 75 gtg acc cag cgg aac cct gtg gaa cag aaa aag cgc aag atg tcc ctg 76 Val Thr Gln Arg Asn Pro Val Glu Gln Lys Lys Arg Lys Met Ser Leu 77 135 140 145 145 145 145 145 145 145 145 145 145		ьуs	GIU	Leu	ьуs		ьеи	ьeu	Asp	GIN		GIA	Asn	Arg	Arg		ser	
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92 Ile Ser Leu Phe Asn Ser Val Ser Gln Trp Val Gln Leu Met Ile Leu 93 200 205 210 95 agc agg ccc aca gcc acg cgg cgg ctg gtc atc aca cat ttc gtg 96 Ser Lys Pro Thr Ala Thr Gln Arg Ala Leu Val Ile Thr His Phe Val 97 215 220 225 99 cat gtg gca gag aag ctg ctg cag act ttc aac acg ttg atg 100 His Val Ala Glu Lys Leu Leu Gln Leu Gln Asn Phe Asn Thr Leu Met 101 230 225 103 gcc gtc gtg gga ggc ctg agc cac agc tcc atc tca acg ctc aag gag 104 Ala Val Val Gly Gly Leu Ser His Ser Ser Ile Ser Arg Leu Lys Glu 105 245 250 255 260 107 acc cac agc cat gtc agc cct agc cct acc acc acc acg ctc gag ggt ctg 108 Thr His Ser His Val Ser Pro Asp Thr Ile Lys Leu Trp Glu Gly Leu 109 265 270 275 111 aca gaa cta gtg aca gct act ggc acc tac acg ctc cag agg 1041 112 Thr Glu Leu Val Thr Ala Thr Gly Asn Tyr Ser Asn Tyr Arg Arg Arg 113 280 285 280 285 290 285 114 aca gaa cta gtg gcc tg ggc ttc cgc ttc catc ctc gg gg gg cgc agg 1041 115 ctg gcg gcc tgc gtg ggc ttc cgc ttc cgc ttt cct atc ctg gg gt ctg cac ctc 1089 116 Leu Ala Ala Cys Val Gly Phe Arg Phe Pro Ile Leu Gly Val His Leu 117 295 300 305 119 aag gat cta gtg gct ctg cag ctg gct ctg cct gac ctg ctg ctg ccc acc acc acc acc acc acc acc acc ac		atc	t.cc	ctc	ttc		agt.	atic	t.c.t	cag		atic	caa	ata	ato		ctc	801
93																		001
95 agc aag ccc aca gcc acg cag cgg gcg ctg gtc atc aca cat ttc gtg 96 Ser Lys Pro Thr Ala Thr Gln Arg Ala Leu Val Ile Thr His Phe Val 97 215 220 225  99 cat gtg gca gag aag ctg ctg cag ctg cag aac ttc aca cag ttg atg 100 His Val Ala Glu Lys Leu Leu Gln Leu Gln Asn Phe Asn Thr Leu Met 101 230 235 240  103 gcc gtc gtg gga ggc ctg agc cac agc tcc atc tca cgc ctc aag gag 104 Ala Val Val Gly Gly Leu Ser His Ser Ser Ile Ser Arg Leu Lys Glu 105 245 250 255 260  107 acc cac agc cat gtc agc cct gac acc atc aag ctc tgg gaa ggt ctg 108 Thr His Ser His Val Ser Pro Asp Thr Ile Lys Leu Trp Glu Gly Leu 109 265 270 275  111 aca gaa cta gtg aca gct act ggc aac ac ac ac acg acc acc acc acg agc acc ac																		
96 Ser Lys Pro Thr Ala Thr Gln Arg Ala Leu Val Ile Thr His Phe Val 97		agc	аас	כככ		acc	acq	cad	caa		cta	atc	atc	aca		ttc	ata	849
97																		015
99 cat gtg gca gag aag ctg ctg cag ctg cag aac ttc aac acg ttg atg 100 His Val Ala Glu Lys Leu Leu Gln Leu Gln Asn Phe Asn Thr Leu Met 101		DCI	цуБ		1111	711 U	1112	OIII	_	nia	ыси	VUI	110		111.0	LIIC	vai	
100	-	cat	ata		asa	'22C'	ata	ata		ata	asa	220	++~		200	++~	ata	907
101   230   5   235   5   235   5   240   392   392   392   392   392   392   392   393   3945   304				_		_	-	-	_	_	_				_	-	_	091
103 gcc gtc gtg ggg ggg ggc ctg ggg ccc acc agc tcc atc tca cgc ctc aag gag g945 104 Ala Val Val Gly Gly Leu Ser His Ser Ser Ile Ser Arg Leu Lys Glu 105 245					GIU	. шуа	, пе			шес	J GII	ı Aşı			1 1111	. nec	Mec	
104 Ala Val Val Gly Gly Leu Ser His Ser Ser Ile Ser Arg Leu Lys Glu 105 245							. ata				. +	3 ata			ata			045
105 245			-				_	_		_				_		_		343
107 acc cac agc cat gtc agc cct gac acc acc acc acc acc acc acc acc acc				. vai	GIY	GIY			nis	s ser	. ser			. ALC	ј пес	т груг		
108 Thr His Ser His Val Ser Pro Asp Thr Ile Lys Leu Trp Glu Gly Leu 109						~+~												003
109				_		_			-			_	-		_		_	993
111 aca gaa cta gtg aca gct act ggc aac tac agc aac tac cgg cga agg 1041 112 Thr Glu Leu Val Thr Ala Thr Gly Asn Tyr Ser Asn Tyr Arg Arg Arg 113			HIS	s ser	HIS			Pro	Asp	Thr		_	з ьег	ı Tr	GIU	_		
112 Thr Glu Leu Val Thr Ala Thr Gly Asn Tyr Ser Asn Tyr Arg Arg Arg 113																		
113																		1041
115 ctg gcg gcc tgc gtg ggc ttc cgc ttt cct atc ctg ggt gtg cac ctc 1089  116 Leu Ala Ala Cys Val Gly Phe Arg Phe Pro Ile Leu Gly Val His Leu  117 295 300 5 5 305  119 aag gat cta gtg gct ctg cag ctg gct ctg cct gac tgg ctg gac cca 1137  120 Lys Asp Leu Val Ala Leu Gln Leu Ala Leu Pro Asp Trp Leu Asp Pro  121 310 5 5 5 5 5 330 5 5 5 5 1 1 185  124 Gly Arg Thr Arg Leu Asn Gly Ala Lys Met Arg Gln Leu Phe Ser Ile  125 325 5 330 5 5 340  127 ctg gag gag ttg gct atg gct atg gtg acc agt ctt cga cca gtg caa gcc 1233  128 Leu Glu Glu Leu Ala Met Val Thr Ser Leu Arg Pro Pro Val Gln Ala			GIU	і ьет			. Ala	Thr	. GIA			Ser	Asr	ı Tyı			Arg	
116 Leu Ala Ala Cys Val Gly Phe Arg Phe Pro Ile Leu Gly Val His Leu 117														_				
117																		1089
119 aag gat cta gtg gct ctg cag ctg gct ctg cct gac tgg ctg gac cca 1137 120 Lys Asp Leu Val Ala Leu Gln Leu Ala Leu Pro Asp Trp Leu Asp Pro 121 310			Ala		_	Val	Gly	Phe	_		Pro	) IIe	e Lei	_		. His	Leu	
120 Lys Asp Leu Val Ala Leu Gln Leu Ala Leu Pro Asp Trp Leu Asp Pro 121																		
121 310 315 320 320 320 321 320 315 320 320 321 321 320 321 321 321 321 321 321 321 321 321 321																		1137
123 ggt cgg acc cgg ctc aat gga gcc aag atg agg cag ctt ttc agc att 1185 124 Gly Arg Thr Arg Leu Asn Gly Ala Lys Met Arg Gln Leu Phe Ser Ile 125 325	120	Lys			ı Val	Ala	Leu	Gln	Leu	Ala	Leu	ı Pro	Asp	Trp	Leu	ı Asp	Pro	
124 Gly Arg Thr Arg Leu Asn Gly Ala Lys Met Arg Gln Leu Phe Ser Ile 125 325 330 330 335 340  127 ctg gag gag ttg gct atg gtg acc agt ctt cga cca cca gtg caa gcc 1233  128 Leu Glu Glu Leu Ala Met Val Thr Ser Leu Arg Pro Pro Val Gln Ala																		
125 325 330 335 340  127 ctg gag gag ttg gct atg gtg acc agt ctt cga cca cca gtg caa gcc 1233  128 Leu Glu Glu Leu Ala Met Val Thr Ser Leu Arg Pro Pro Val Gln Ala																		1185
127 ctg gag gag ttg gct atg gtg acc agt ctt cga cca cca gtg caa gcc 1233 128 Leu Glu Glu Leu Ala Met Val Thr Ser Leu Arg Pro Pro Val Gln Ala	124	Gly	Arg	Thr	Arg	Leu	Asn	Gly	Ala	Lys	Met	Arg	, Glr	Leu	ı Phe	: Ser	·Ile	
128 Leu Glu Glu Leu Ala Met Val Thr Ser Leu Arg Pro Pro Val Gln Ala	125	325					330					335	5				340	
<del>-</del>	127	ctg	gag	gag	, ttg	gct	atg	gtg	acc	agt	ctt	cga	cca	cca	gtg	, caa	gcc	1233
129 345 350 355	128	Leu	Glu	Glu	Leu	Ala	Met	Val	Thr	Ser	Leu	ı Arg	, Pro	Pro	Val	. Glr	Ala	
	129	1				345					350	)				355	i	

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Input Set : A:\MIT-103.ST25.txt

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121	220	ccc	asc.	ctg	cta	act	cta	ctc	200	ata	tcc	cta	a a c	CaG	tst	cac	1281
				Leu													1201
133				360	200	001	200	200	365	<b>,</b> , ,	501	Deu	1100	370	-1-	<b>01</b>	
	acq	aaa	gat.	gag	cta	tat	cag	ctc		cta	cag	cga	gag		cat.	tee	1329
	_		_	Glu	_		_			_	_	_			_		1323
137		014	375		200	- 1	0	380	001		0	••• 3	385	110	5	501	
	ааσ	tca		ccc	acc	agc	CCC		agg	tac	acc	cca		ccc	caa	cca	1377
			_	Pro					_	_		-				-	13,,,
141	<b>L</b> , 5	390	001			501	395		001	Cys		400	110	110	9	110	
	cct		cta	gaa	gag	taa		tca	att	acc	aad		aag	cta	gac	caa	1425
				Glu													1123
	405			014	014	410		001			415		2,0	200	1100	420	
		tta	ata	gcc	gag		att	gag	aaq	ata		gag	tct	ata	ttc		1473
				Ala													11/5
149				1114	425			014		430	• • • •	014	501	• • • •	435	5	
	aac	ttt	gac	gtt		aaa	gac	aat	cac		ticc	caq	gag	gag		cag	1521
			-	Val	_		_					_				_	
153				440		~- <i>1</i>	F	1	445					450			
	atc	atc	caa	ggc	aac	ttc	cct	tat		agc	acc	ttt	aaa		tta	gac	1569
				Gly													
157			455	1				460					465	F		E	
	caσ	aac		gat	aac	tac	atc		caa	σaσ	σaσ	atσ		tcc	tac	ttc	1617
				Asp													
161		470			2		475					480			2		
163	cta	cac	tcc	agc	tcc	ata	cta	qqa	aac	cac	atq	aac	ttc	qta	cac	aac	1665
				Ser													
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		caq	qaq	agt	aac	tcq	cta	aqq	ccq	qtc	qcc	tqc	cqa	cac	tqc	aaa	1713
				Ser													
169					505					510		-	Ū		515	-	
171	gct	ctg	atc	ctg	ggc	atc	tac	aag	cag	ggc	ctc	aaa	tgt	aga	gct	tgt	1761
				Leu													
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176	Gly	Val	Asn	Cys	His	Lys	Gln	Cys	Lys	Asp	Arg	Leu	Ser	Val	Glu	Cys	
177			535					540					545				
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180	Arg	Arg	Arg	Ala	Gln	Ser	Val	Ser	Leu	Glu	Gly	Ser	Ala	Pro	Ser	Pro	
181		550					555					560					
183	tca	CCC	aca	cat	acc	cac	cat	cgg	gcc	ttc	agc	ttc	tcc	ctg	cct	cgc	1905
184	Ser	Pro	Thr	His	Thr	His	His	Arg	Ala	Phe	Ser	Phe	Ser	Leu	${\tt Pro}$	Arg	
185	565					570					575					580	
187	cca	ġgc	agg	cgc	agc	tct	cgg	cct	cca	gag	atc	cgt	gaa	gag	gag	gtg	1953
188	Pro	Gly	Arg	Arg	Ser	Ser	Arg	Pro	Pro	Glu	Ile	Arg	Glu	Glu	Glu	Val	
189					585					590					595		
				gaa									taag	gacgo	ctg		1999
	Gln	Thr	Val	Ğlu	Asp	Gly	Val	Phe	Asp	Ile	His	Leu					
193				600					605								
195	tgad	ctato	caa 🤉	ggact	catt	c ct	gcct	tgga	a gaa	aaaga	actt	ggag	gcaga	agc a	aggga	agccag	2059

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199 201 203 206	aaaa ccag aaaa <210	aaagg gatgg aaaa )> SI	gcc a gaa t aaa a EQ II	agggo aaaa a no no	ctggt aaggo : 2	g to	ccta	aaggt	tgt:	acag	gact	tcto	gtgaa	ata t	ttgt	cactga catttt aaaaaa	2119 2179 2239 2250
	<211				76												
	<212				<b>\</b>			_									
						muso	culus	5									
	<400					_	_	_	_	~-7	~	1	,	<b>~</b> 1	~1	_	
		Ala	Ser	Thr		Asp	Leu	Asp	Lys		Cys	Thr	vaı	GIU		Leu	
214		_	~7	~	5	<b>~</b> 1		51		10	<b>a</b>	<b>a</b> 1	<b>T</b>		15	7	
	Leu	Arg	GIY	_	тте	Glu	Ата	Pne		Asp	ser	GIY	ьys		Arg	Asp	
218	_	~-3	_	20	_		-1		25		***	D	<b></b>	30	<b>~</b> 1.	D	
	Pro	GIn		vaı	Arg	Met	Pne		Met	мет	HlS	Pro		Tyr	тте	Pro	
222	_	_	35	_		_	_	40			<b>5</b> 1		45	<b>~1</b>	0	7	
	Ser		Gin	Leu	Ala	Ser		Leu	Leu	His	Pne		GIn	GIN	ser	Arg	
226	_	50	_	_	_	_	55	~1		-	m)	60	** '	<b>.</b>	TT - 3	3	
	-	Asp	Asn	Ser	Asn	Ser	Leu	Gin	vaı	гÀг		Cys	HIS	Leu	vaı		
230		_			<b>.</b>	70		27.	<b>G</b> 1	D)	75	*	7	D	~1	80	
	Tyr	Trp	val	ser		Phe	Pro	Ата	GIU		Asp	ьeu	ASI	Pro		ьeu	
234		<b>a</b> 1		<b>~</b> 1.	85	<b>a1</b>	<b>.</b>	<b>T</b>	77-	90	<b>T</b>	7	<b>~1</b>	a1	95	7 ~~	
	Ala	GIU	Pro		ьys	Glu	ьeu	гÀг		ьeu	ьеu	Asp	GIII		GIY	ASII	
238		3	TT -	100	0	T		7	105	<b>~</b> 1	Com	1707	Dwa	110	TT	Trra	
	arg	Arg		ser	ser	Leu	тте		тте	GIU	ser	Val		1111	IYI	пуѕ	
242		<b>.</b>	115	<b>~1</b>	17 7	m1	<b>~1</b>	120	7 ~~	Desc	17 ]	<b>~</b> 1	125	T	T	7. ~~	
	тър	LуS 130	Arg	GIII	Vai	Thr	135	Arg	ASII	PLO	Val	140	GIII	пур	пур	Arg	
246	Tara		cor	T 011	T 011	Phe		uic	Lou	Glu	Dro		Glu.	T.011	בומ	Glu	
	LуS 145	Met	ser	ьеи	ьeu	150	Asp	птъ	ьеи	GIU	155	Met	GIU	Бец	AIG	160	
		T 011	Thr	Ф. т.	T 011	Glu	Тугх	λκα	cor	Dho		Larc	т1Д	T.011	Dho		
254	nis	Leu	TIIL	ıyı	165	Giu	ıyı	Arg	261	170	Суз	цуз	110	пец	175	GIII	
	λen	Tur	иic	Sar		Val	Thr	Иic	Glv		Thr	Val	Asn	Δsn		Val	
258	Asp	ıyı	1113	180	FIIC	Val	1111	1113	185	Cys	1111	vai	7100	190	110	vai	
	T.011	Glu	Δra		Tle	Ser	Len	Phe		Ser	Val	Ser	Gln		Val	Gln	
262	шеи	O-Lu	195	1110	110	001	Lou	200		001			205				
	Len	Met		Len	Ser	Lys	Pro		Ala	Thr	Gln	Ara		Leu	Val	Ile	
266	200	210				-1-	215					220					•
	Thr		Phe	Val	His	Val		Glu	Lvs	Leu	Leu		Leu	Gln	Asn	Phe	
	225					230			-1-		235					240	
		Thr	Leu	Met	Ala	Val	Val	Glv	Glv	Leu		His	Ser	Ser	Ile	Ser	
274					245			1	2	250					255		
	Ara	Leu	Lvs	Glu		His	Ser	His	Val		Pro	Asp	Thr	Ile		Leu	
278	5		2	260					265			-		270	•		
	Trp	Glu	Glv		Thr	Glu	Leu	Val		Ala	Thr	Gly	Asn		Ser	Asn	
282			275					280				•	285	-			
	Tyr	Ara		Arq	Leu	Ala	Ala		Val	Gly	Phe	Arq	Phe	Pro	Ile	Leu	
286	4.	290	,	J			295	-		-		300					
	Gly		His	Leu	Lys	Asp		Val	Ala	Leu	Gln	Leu	Ala	Leu	Pro	Asp	
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	_	_	_	_		_			_				_		_		
	Trp	Leu	Asp	Pro	_	Arg	Thr	Arg	Leu		Gly	Ala	Lys	Met	_	Gln	
294	_	_, ,	_		325	~-	~-	_		330		1	_	_	335	_	
	Leu	Phe	Ser		Leu	GIu	Glu	Leu		Met	Val	Thr	Ser		Arg	Pro	
298	_		~ 3	340	_	_	_	_	345	_	_	_	1	350	_	_	
	Pro	Val		Ala	Asn	Pro	Asp		Leu	Ser	Leu	Leu		Val	Ser	Leu	
302	_	~ 3	355	~ 3	_,			360	_	_		_	365	_	~-3	_	
	Asp		Tyr	GIn	Thr	GIu	Asp	GIu	Leu	Tyr	GIn		Ser	Leu	GIn	Arg	
306	~3	370	_	_	_	_	375	_	_,	_	_	380	_	_		_	
		Pro	Arg	Ser	Lys		Ser	Pro	Thr	Ser		Thr	Ser	Cys	Thr		
	385					390		~1	~1		395				_	400	
	Pro	Pro	Arg	Pro		vaı	Leu	GIU	GIU	_	Thr	Ser	vaı	Ala	_	Pro	
314	<b>.</b>	•		<b>~</b> 1	405		**- 1	27-	<b>~</b> 1	410	<b>~1</b> -	<b>~</b> 1	<b>.</b>	<b>N</b> - 4	415	<b>a</b> 1	
	гля	Leu	Asp		Ala	Leu	Val	Ala		His	·11e	GIU	ьуs		Val	GIu	
318		**- 7	<b>51</b>	420		<b>D</b> 1	•	**- 3	425	<b>~</b> 1		<b>~</b> 1		430		<b>~</b> 1	
	Ser	Val		Arg	Asn	Pne	Asp		Asp	GIY	Asp	GIY		ше	Ser	GIn	
322	<b>0</b> 1	<b>~</b> 1	435	<b>~</b> 1.	<b>-</b> 1.	-1.	<b>.</b>	440	•	<b>5</b> 1	<b>T</b>	<b>.</b>	445			<b>D</b> 1	
	GIU		Pne	Gin	ше	тте	Arg	GIA	Asn	Pne	Pro	_	Leu	Ser	Ата	Pne	
326	<b>~</b> 3	450			a1 .	•	455	•	~1	<b>~</b> .	-1.	460	•	~1	~1	10-1	
	_	Asp	Leu	Asp	Gin		Gln	Asp	GIY	Cys		Ser	Arg	GIU	GIU		
	465	0		Dl	<b>.</b>	470	0	<b>0</b>	0	**- 7	475	<b>~1</b>	<b>01</b>	3	<b>M</b> = 4-	480	
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334	Dh -	**- 7	TT	7	485	<b>~1</b> -	a1	C	7	490	T	7	Desc	17- 1	495	C	
	Pne	vai	HIS		Pne	GIII	Glu	ser		ser	ьeu	Arg	PIO		Ala	Cys	
338	7~~	ni a	C	500	71-	T 011	Ile	T 011	505	T10	П	T	C1 =	510	T 011	Tira	
	Arg	птъ	515	ьуѕ	Ala	Leu	ire		GIY	iie	ıyı	цуѕ		GIY	Leu	гÀг	
342	Cara	7 ~~		Crro	C1	17 n l	Nan	520 Cvc	шіс	Tara	C1 n	Cara	525	λαν	7.20	Tou	
346	Cys	530	AIA	Cys	GIY	vai	Asn 535	Cys	птэ	ьур	GIII	540	пåг	Asp	Arg	Leu	
	Car		Glu	Cvc	λνα	λνα	Arg	λla	Gln	Car	Va l		Leu	Clu	Clv	Cor	
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		Pro	Ser	Pro	Ser		Thr	Hic	Thr	Hic		Δrα	Δla	Phe	Ser		
354	AIG	110	JCI	110	565	110	1111	111.5	1111	570	111.5	nr 9	nια	1110	575	1110	
	Ser	T.e.i	Pro	Δrα		Glv	Arg	Δra	Ser		Ara	Pro	Pro	Glu		Ara	
358	UCI	ДСИ	110	580	110	O <sub>T</sub>	****9	9	585	DCI	****9	110	110	590	110	1119	
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362	014	014	595	· u =	0111		<b>741</b>	600	1100	017			605			200	
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			ENGTI														
			PE:														
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			EATU			1											
			AME/I		CDS												
						L)	(1987	7)									
			EQUE			-											
						g go	ctcaa	igtqa	a aca	agcad	egte	cago	gaggg	ega d	cctc	gtccgc	60
																gctccc	120
							ccaco										175
381		_	-		-	-		_	-		_				Thr		
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VERIFICATION SUMMARY

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